



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

**Hartman Windows and Doors, LLC.
531 Southern Boulevard
West Palm Beach, FL 33405**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Sidelite/Transom" Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W07-45**, titled "Sidelite/Transom Windows (L.M.I.)", sheets 1 through 8 of 8, dated 05/05/07 with revision A dated 03/26/09, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **revises NOA # 07-0918.01** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 09-0518.04
Expiration Date: November 15, 2012
Approval Date: September 23, 2009
Page 1**

Hartman Windows and Doors, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W07-45**, titled "Sidelite/Transom Windows (L.M.I.)", sheets 1 through 8 of 8, dated 05/05/07 with revision A dated 03/26/09, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5191**, dated February 19, 2007, signed and sealed by Michael Wenzel, P.E.
(Submitted under NOA# 07-0522.05)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4941**, dated December 11, 2006, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA# 07-0522.05)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4944**, dated November 14, 2006, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA# 07-0522.05)


Manuel Perez, P.E.

Product Control Examiner
NOA No. 09-0518.04

Expiration Date: November 15, 2012

Approval Date: September 23, 2009

Hartman Windows and Doors, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4969**, dated August 21, 2006, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA# 07-0522.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 3/25/09, signed and sealed by Humayoun Farooq, P.E.
Complies with ASTM E1300-02/04

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **09-0312.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 05/13/09, expiring on 12/11/10.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex IIIIG Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.
3. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites Glass Interlayer**" dated 7/17/08, expiring on 12/11/13.

F. STATEMENTS

1. Statement letter of conformance, dated March 25, 2009, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated March 25, 2009, signed and sealed by Humayoun Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **07-0918.01**, issued to Hartman Windows and Doors, LLC for their Series ADA European Side Lites & Transom Lites – L.M.I., approved on 11/15/07 and expiring on 11/15/12.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0518.04
Expiration Date: November 15, 2012
Approval Date: September 23, 2009

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SIDELITE/TRANSOM WINDOWS

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THESE WINDOWS CAN BE INSTALLED AS SINGLE UNITS OR IN COMBINATION WITH MIAMI-DADE COUNTY APPROVED PRODUCTS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURES FROM WINDOWS, DOORS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004/2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

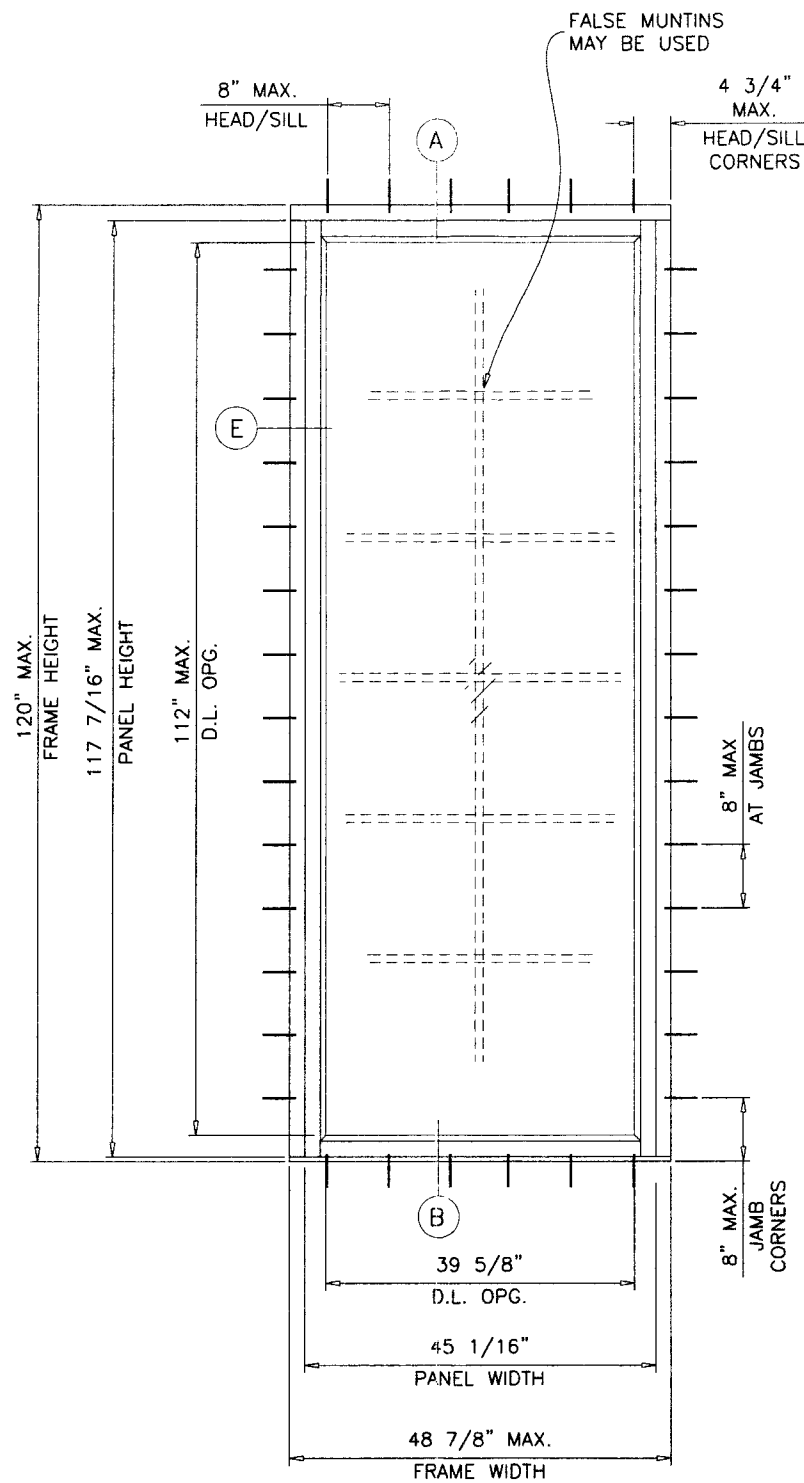
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

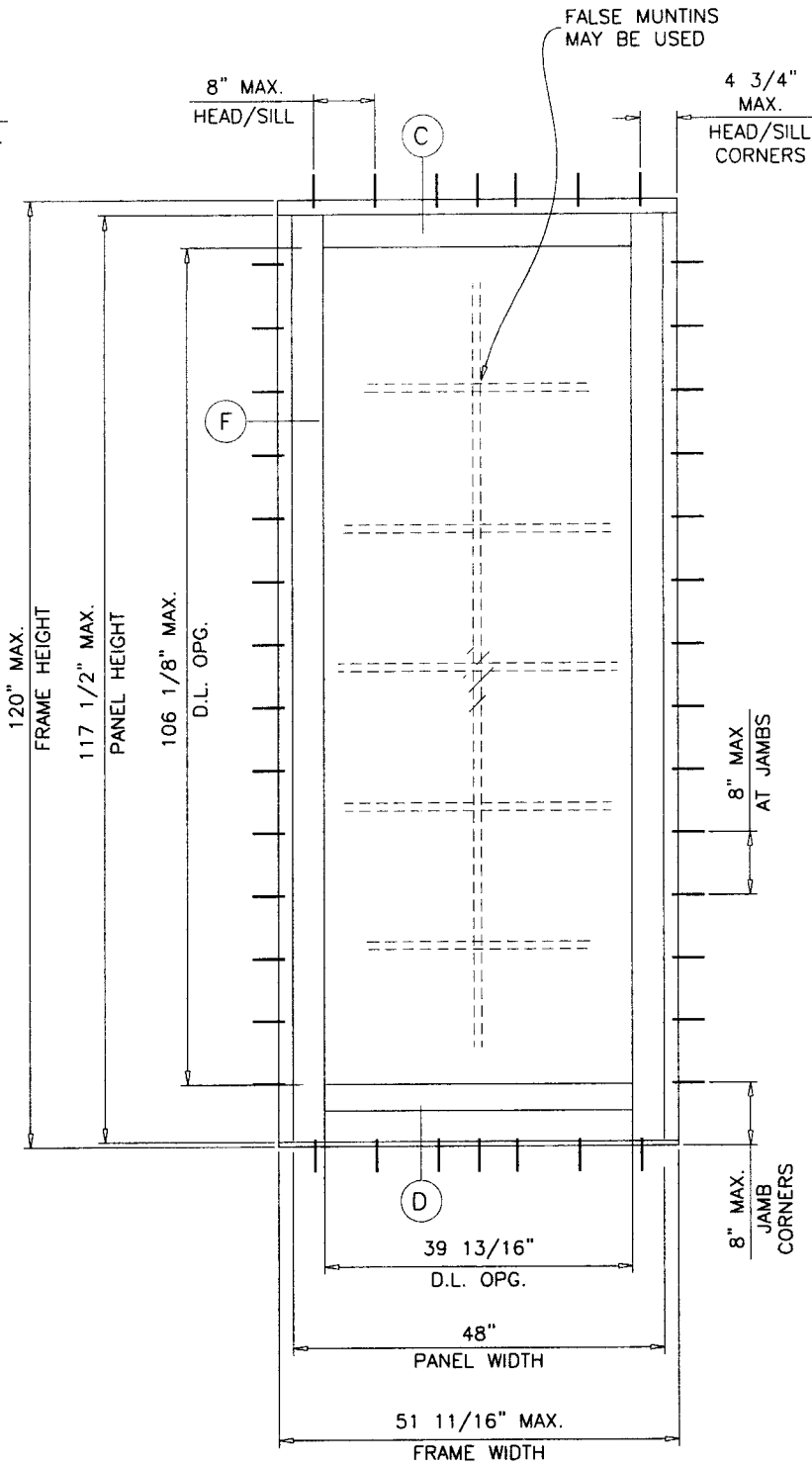
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004/2007 FLORIDA BLDG. CODE SECTION 2003.8.4.



TRANSOM/SIDELITE UNIT



FIX. DOOR UNIT

TYPICAL ELEVATIONS

WINDOWS CAN BE INSTALLED WITH ANY OF THE FOLLOWING OPTIONS

- OPTION 1: BY USING FASTENERS THRU WINDOW FRAME INTO STRUCTURE AT 8" FROM CORNERS AND 8" O.C. MAX.
- OPTION 2: BY USING FASTENERS THRU STRAP CLIPS AT 8" FROM CORNERS AND 8" O.C. MAX.
- OPTION 3: BY USING FASTENERS THRU CONT. ALUM ANGLE AT 8" FROM CORNERS AND 8" O.C. MAX.

SEE SHEETS 3 THRU 5 FOR DETAILS.

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

APR 02 2009

REVISIONS:
no. date by description
A 03.26.09 UPDATED FOR 2007 FBC
09-0518-04
Acceptance No. 09-0518-04
Expiration Date NOV. 15, 2012
By: *Manuel Perez*
Miami Dade Product Control
Division

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL \ W07-45HWD

SIDELITE/TRANSOM WINDOWS (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

no.	date	by	description
A	03.26.09		UPDATED FOR 2007 FBC

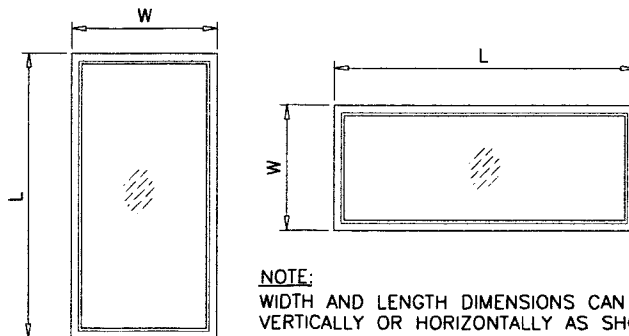
date: 05-05-07
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W07-45
sheet 1 of 8

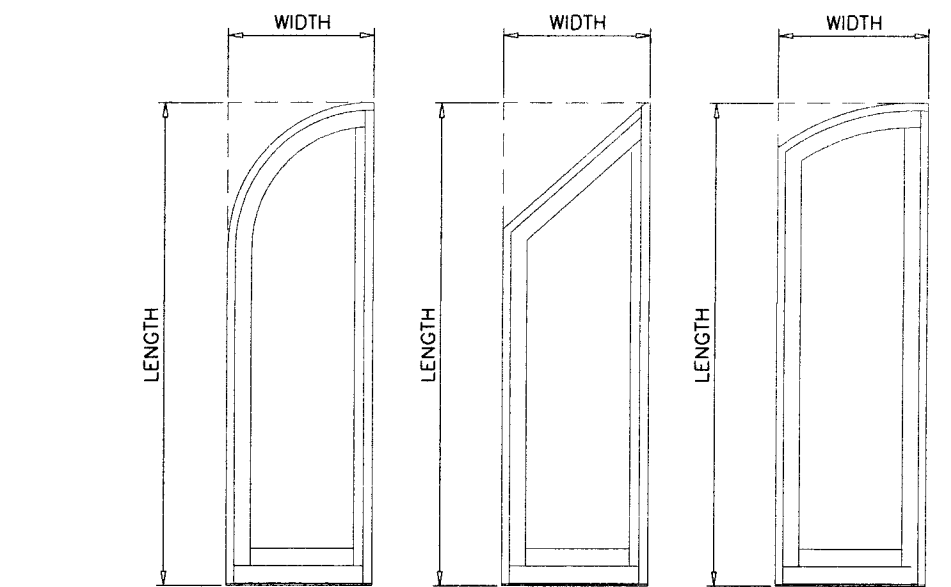
DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLAZING TYPES					
WIDTH *	LENGTH *	'A'/'E'	'B'	'C'	'C1'	'D'/'H'/'I'	'F'/'G'
		EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
18"	72"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0	70.0
33"		70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0
39"		70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0
45"		70.0	-	70.0	70.0	70.0	70.0
48"		70.0	-	70.0	70.0	70.0	70.0
51"		70.0	-	70.0	70.0	70.0	70.0
18"	78"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0	70.0
33"		70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0
39"		70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	-	70.0	70.0	70.0	70.0
45"		70.0	-	70.0	70.0	70.0	70.0
48"		70.0	-	70.0	70.0	70.0	70.0
51"		-	-	70.0	70.0	-	70.0
18"	84"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0	70.0
33"		70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0
39"		70.0	-	70.0	70.0	70.0	70.0
42"		70.0	-	70.0	70.0	70.0	70.0
45"		70.0	-	70.0	70.0	70.0	70.0
48"		-	-	70.0	70.0	-	70.0
51"		-	-	70.0	70.0	-	70.0
18"	90"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0	70.0
33"		70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	-	70.0	70.0	70.0	70.0
39"		70.0	-	70.0	70.0	70.0	70.0
42"		70.0	-	70.0	70.0	70.0	70.0
45"		-	-	70.0	70.0	-	70.0
48"		-	-	70.0	70.0	-	70.0
51"		-	-	70.0	70.0	-	70.0
18"	96"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0	70.0
33"		70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	-	70.0	70.0	70.0	70.0
39"		70.0	-	70.0	70.0	70.0	70.0
42"		-	-	70.0	70.0	-	70.0
45"		-	-	70.0	70.0	-	70.0
48"		-	-	70.0	70.0	-	70.0
51"		-	-	70.0	70.0	-	70.0

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLAZING TYPES					
WIDTH *	LENGTH *	'A'/'E'	'B'	'C'	'C1'	'D'/'H'/'I'	'F'/'G'
		EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
18"	102"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0	70.0
33"		70.0	-	70.0	70.0	70.0	70.0
36"		70.0	-	70.0	70.0	70.0	70.0
39"		70.0	-	70.0	70.0	-	70.0
42"		-	-	70.0	70.0	-	70.0
45"		-	-	70.0	70.0	-	70.0
48"		-	-	70.0	70.0	-	70.0
51"		-	-	70.0	-	-	70.0
18"	108"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	70.0	70.0
33"		70.0	-	70.0	70.0	70.0	70.0
36"		70.0	-	70.0	70.0	70.0	70.0
39"		-	-	70.0	70.0	-	70.0
42"		-	-	70.0	70.0	-	70.0
45"		-	-	70.0	70.0	-	70.0
48"		-	-	70.0	70.0	-	70.0
51"		-	-	70.0	-	-	70.0
18"	114"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	-	70.0	70.0	70.0	70.0
33"		70.0	-	70.0	70.0	70.0	70.0
36"		-	-	70.0	70.0	-	70.0
39"		-	-	70.0	70.0	-	70.0
42"		-	-	70.0	70.0	-	70.0
45"		-	-	70.0	70.0	-	70.0
48"		-	-	70.0	-	-	70.0
51"		-	-	70.0	-	-	-
18"	120"	70.0	70.0	70.0	70.0	70.0	70.0
21"		70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	70.0	70.0
27"		70.0	70.0	70.0	70.0	70.0	70.0
30"		70.0	-	70.0	70.0	70.0	70.0
33"		70.0	-	70.0	70.0	70.0	70.0
36"		-	-	70.0	70.0	-	70.0
39"		-	-	70.0	70.0	-	70.0
42"		-	-	70.0	70.0	-	70.0
45"		-	-	70.0	-	-	70.0
48"		-	-	70.0	-	-	-

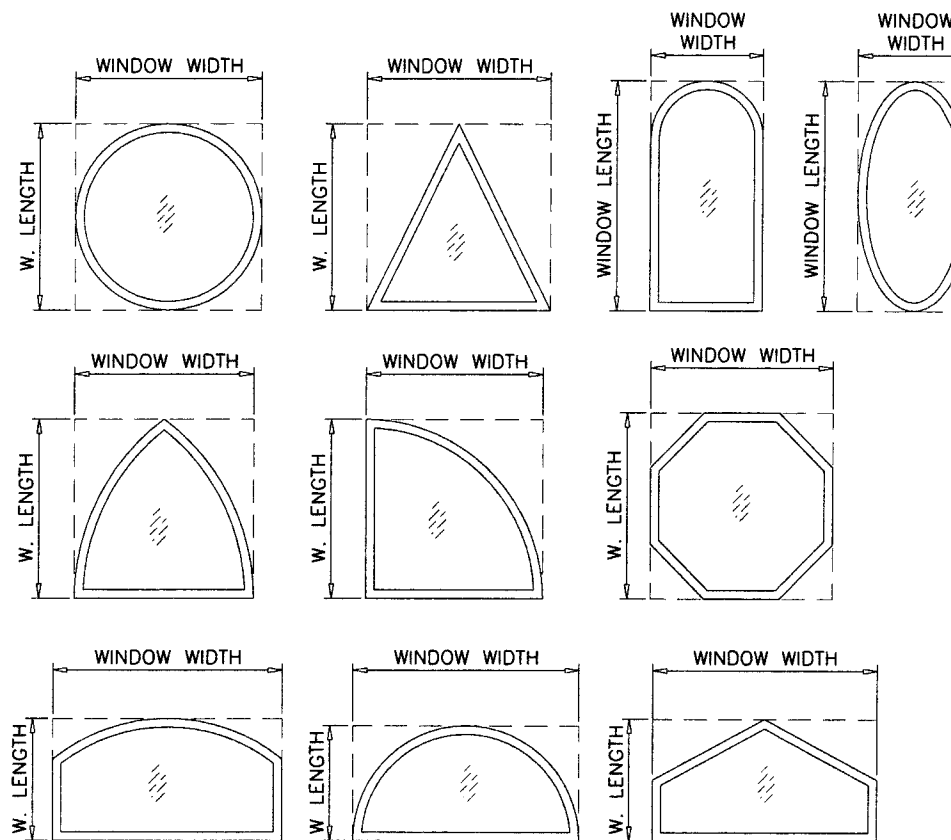
* ADD 2.625 INCHES TO WIDTH SIZES SHOWN ABOVE FOR FIX. DOOR UNITS.
ADD 5.875 INCHES TO LENGTH SIZES SHOWN ABOVE FOR FIX. DOOR UNITS.



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN OR SIMILAR CAN BE
VERIFIED BY INSCRIBING WINDOW SHAPE WITHIN RECTANGLE AS SHOWN IN DOTTED
LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

APR 02 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0518.04
Expiration Date NOV. 15, 2012
By: *Manuel Lopez*
Miami Code Product Control
Division

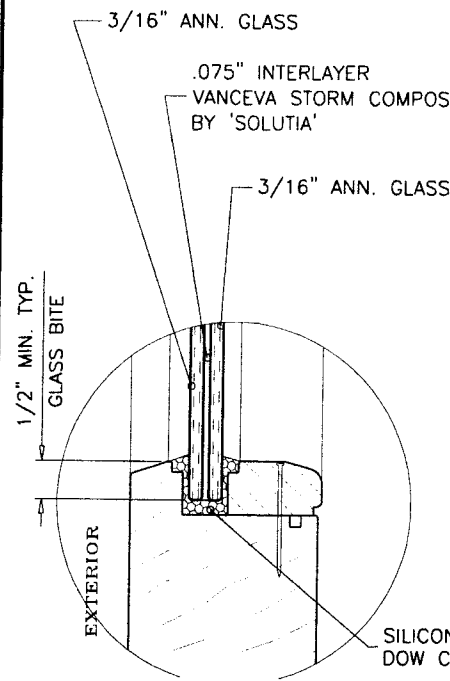
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL W07 - 45HWD

SIDELITE/TRANSOM WINDOWS (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

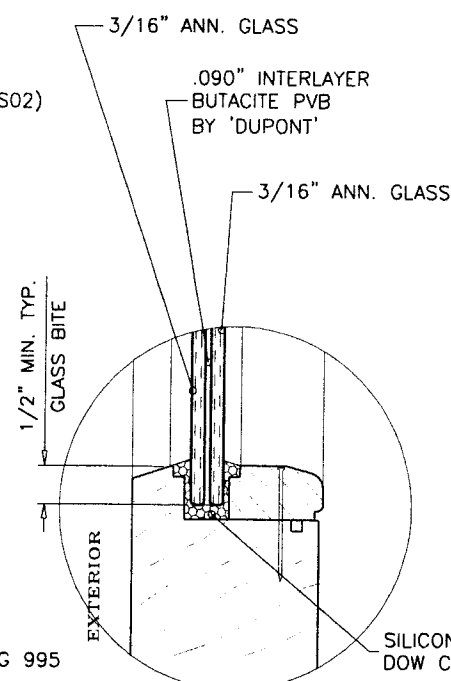
revisions:	
no	description
1	03.26.09
2	09.05.12

date: 05-05-07
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

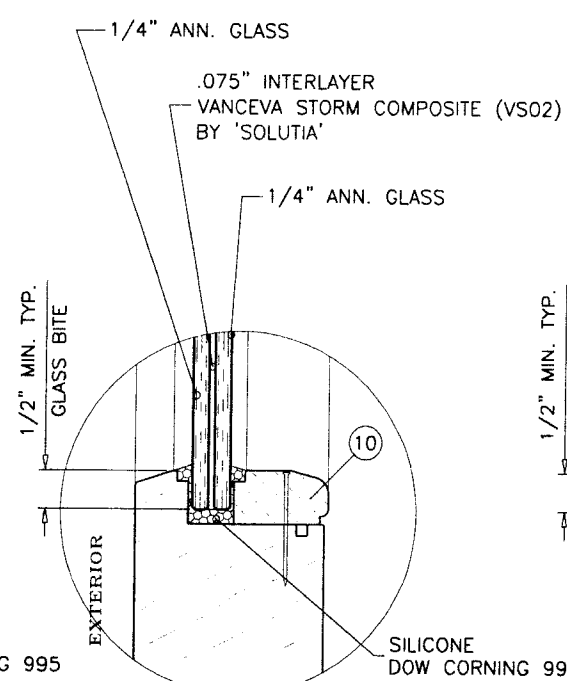
drawing no.
W07-45
sheet 2 of 8



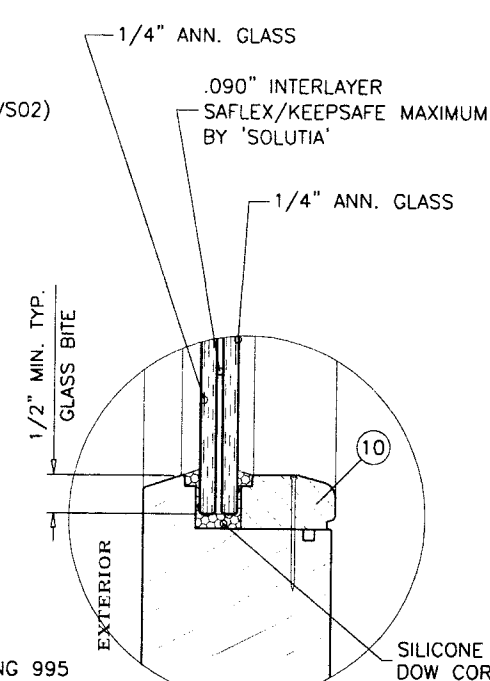
GLAZING TYPE 'A'



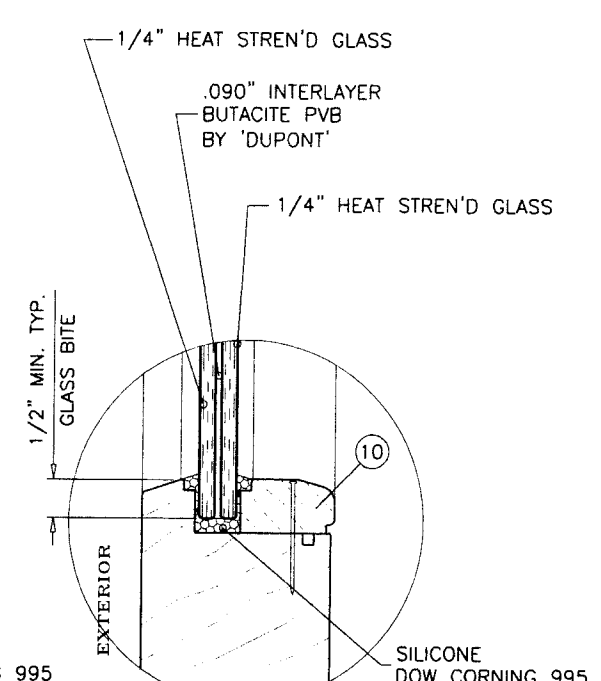
GLAZING TYPE 'B'



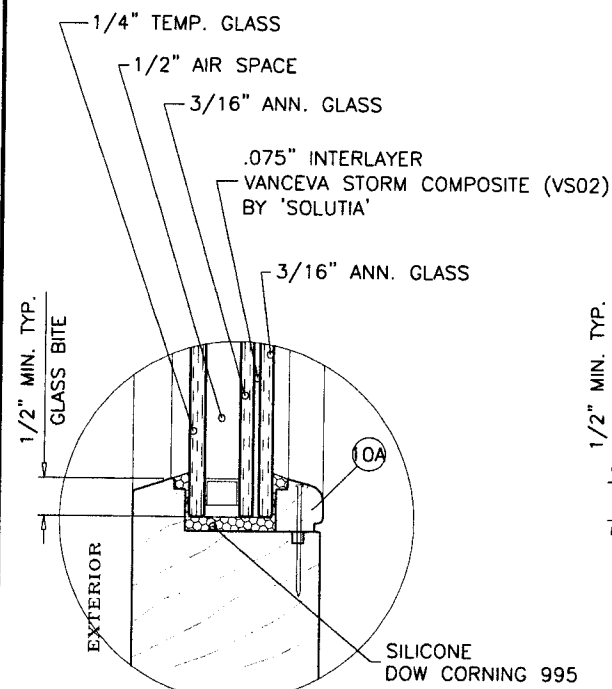
GLAZING TYPE 'C'



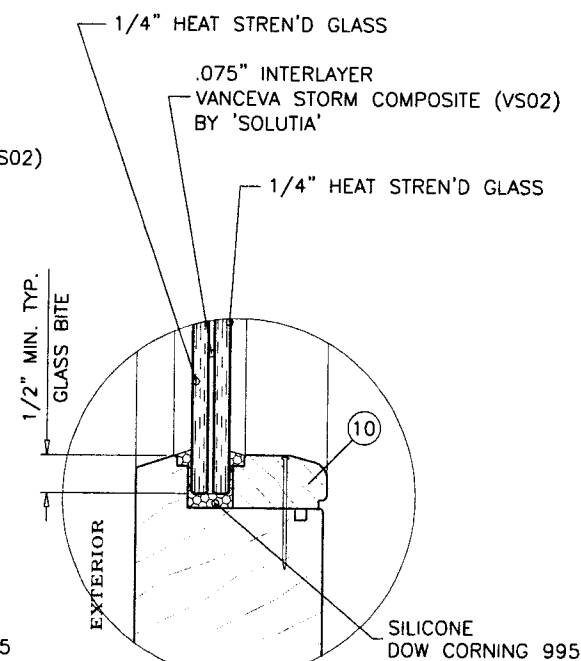
GLAZING TYPE 'C1'



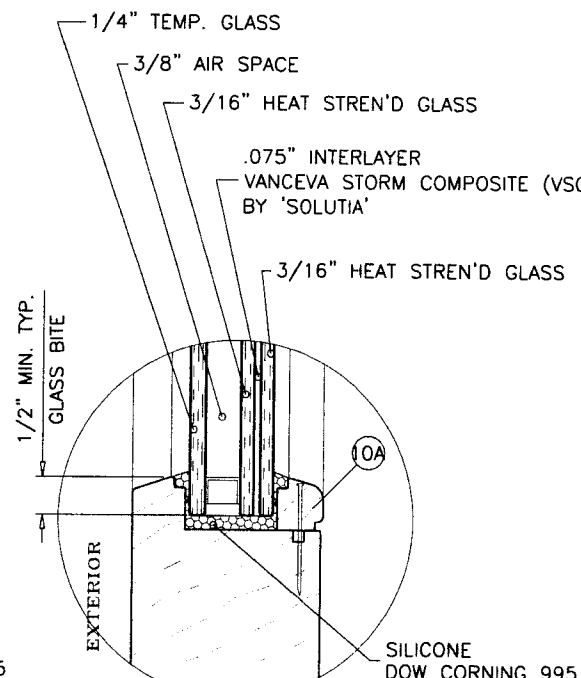
GLAZING TYPE 'D'



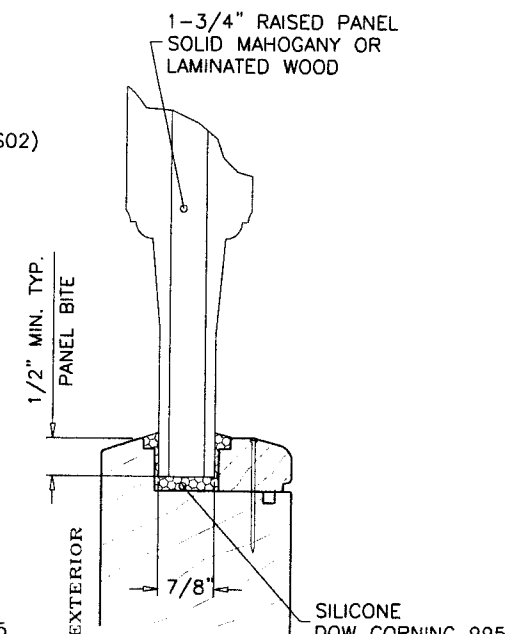
GLAZING TYPE 'E'



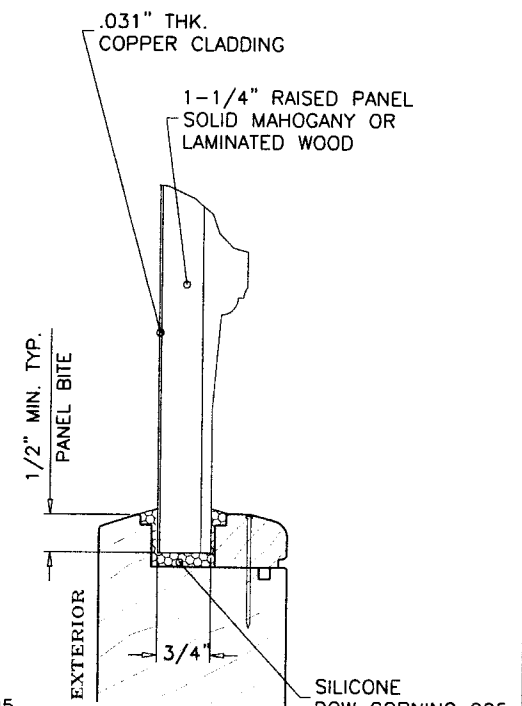
GLAZING TYPE 'F'



GLAZING TYPE 'G'



GLAZING TYPE 'H'



GLAZING TYPE 'I'

GLAZING OPTIONS

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

APR 02 2009

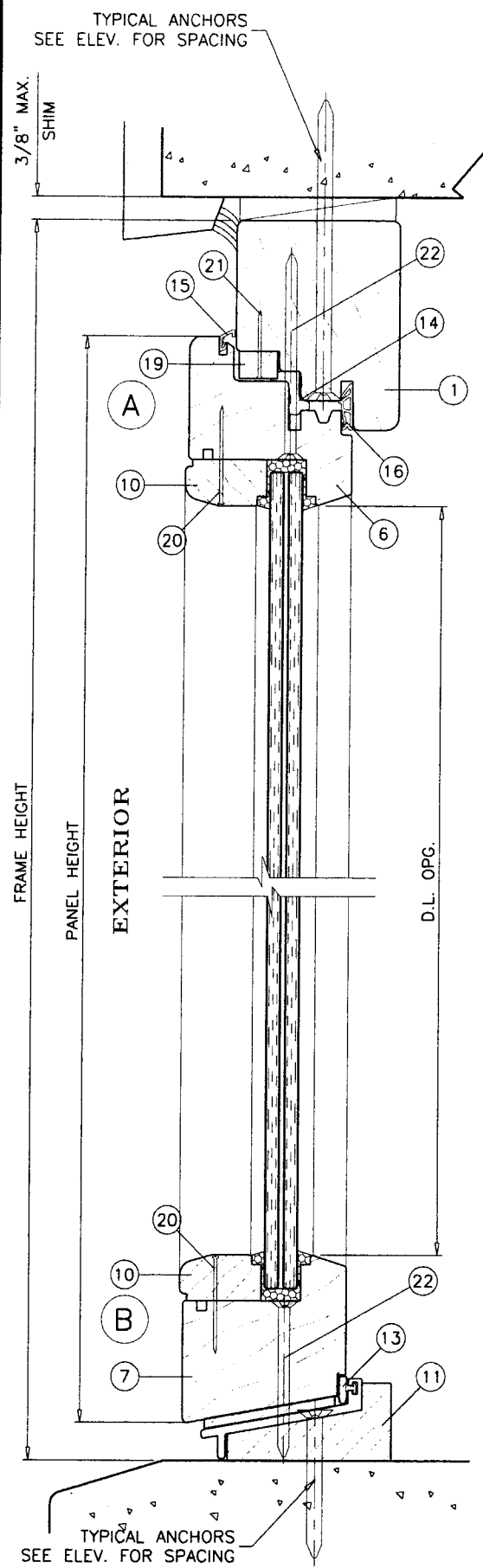
PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 09-0518.04
Expiration Date Nov 15, 2012
By Manuel Perez
Miami Dade Product Control
Division

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W07-45HWD

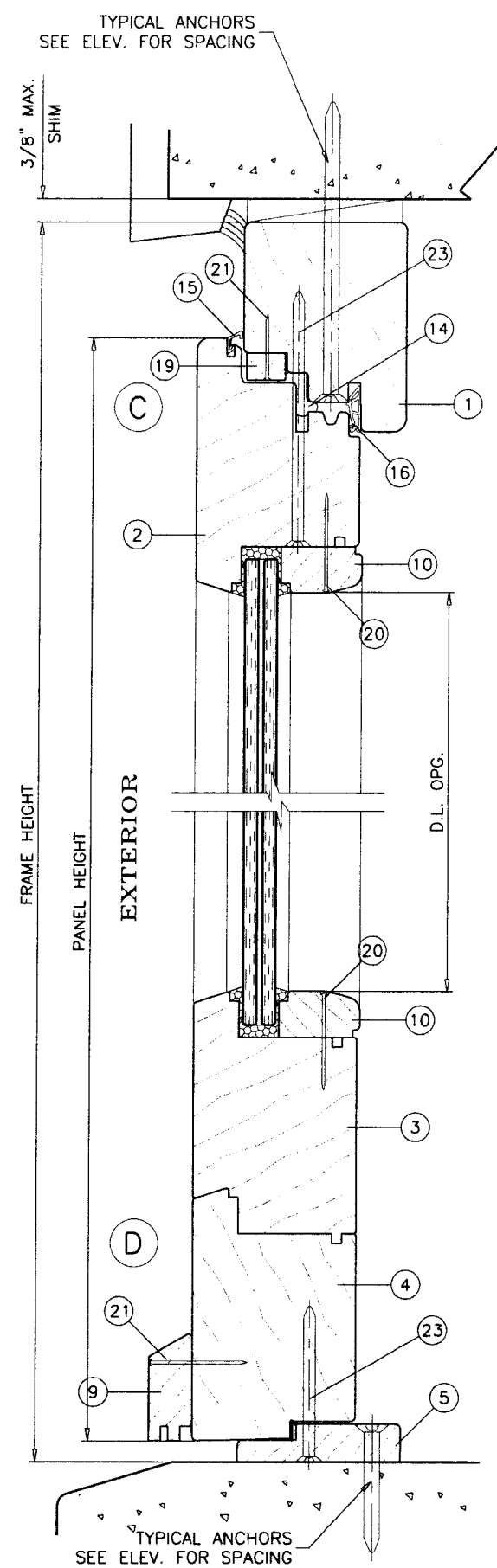
SIDELITE/TRANSOM WINDOWS (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:		by description
no	date	
A	03.26.09	NO CHANGE THIS SHEET

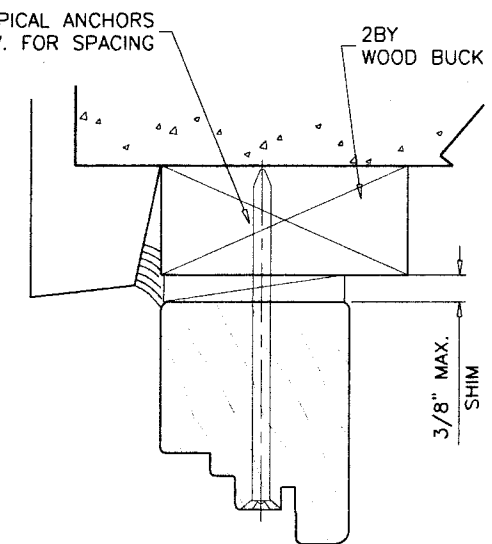
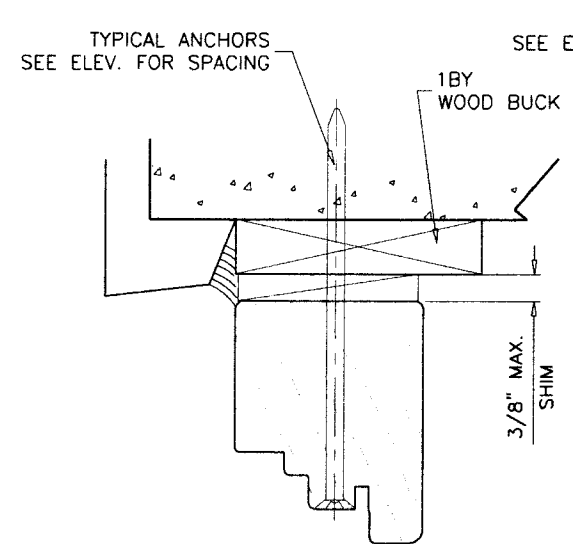
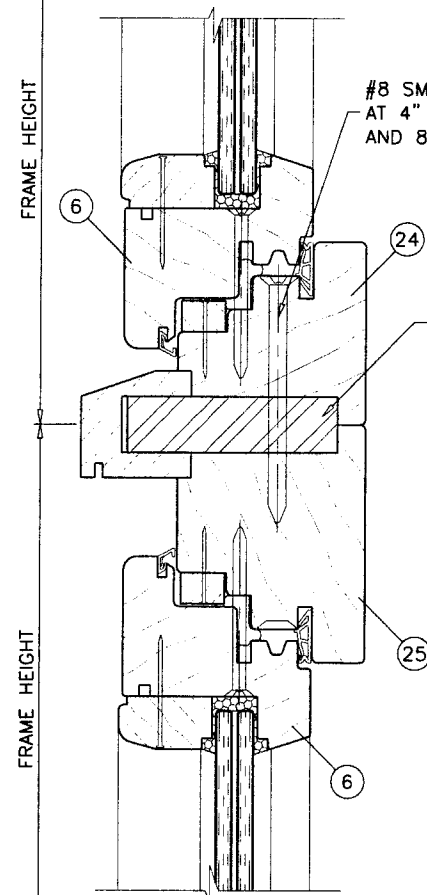
date: 05-05-07
scale: 3/8" = 1"
dr. by: HAMID
chk. by:
drawing no.
W07-45
sheet 3 of 8



SIDELITE/TRANSOM UNIT



FIX. DOOR UNIT



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHORS THRU WINDOW FRAME

- 1/4" DIA. TAPCON BY 'ITW'** (Fu=120 KSI, Fy=92 KSI)
- 1/4" DIA. ULTRACON BY 'ELCO'** (Fu=177 KSI, Fy=155 KSI)
- INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-3/8" MIN. PENETRATION INTO WOOD
- THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

ANCHORS THRU STRAP CLIPS & ALUM ANGLE

- A: #10 SMS** (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-3/8" MIN. PENETRATION INTO WOOD
- B: 3/16" DIA. TAPCON BY 'ITW'** (Fu=120 KSI, Fy=92 KSI)
3/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-3/8" MIN. PENETRATION INTO WOOD
- THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 1-1/2" MIN. (UNLESS SPECIFIED)
INTO WOOD STRUCTURE = 3/4" MIN. (UNLESS SPECIFIED)

ANCHORS CL TO CL DISTANCE

INTO CONCRETE AND MASONRY = 3" MIN.
INTO WOOD STRUCTURE = 3/4" MIN. (UNLESS SPECIFIED)

CONCRETE f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

WOOD BUCKS NOT BY HARTMAN WINDOWS, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 09-0518-04
Expiration Date NOV. 15, 2012
By: *Manuel Perez*
Miami Dade Product Control
Division

APR 02 2009

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W07-45HWD

SIDELITE/TRANSOM WINDOWS (L.M.I.)

HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:	no	date	by	description
	A	03.26.09		ANCHORS REVISED

date: 05-05-07

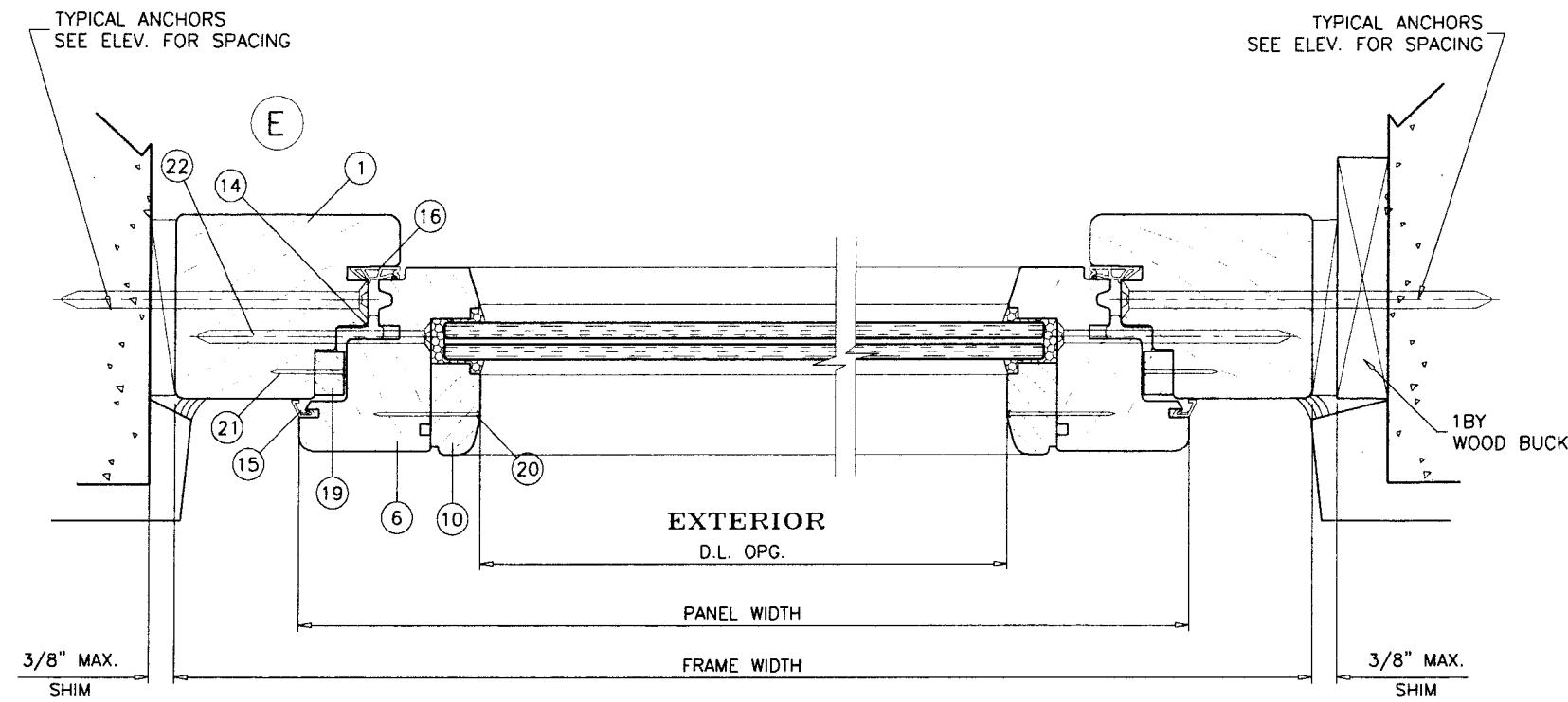
scale: 3/8" = 1"

dr. by: HAMID

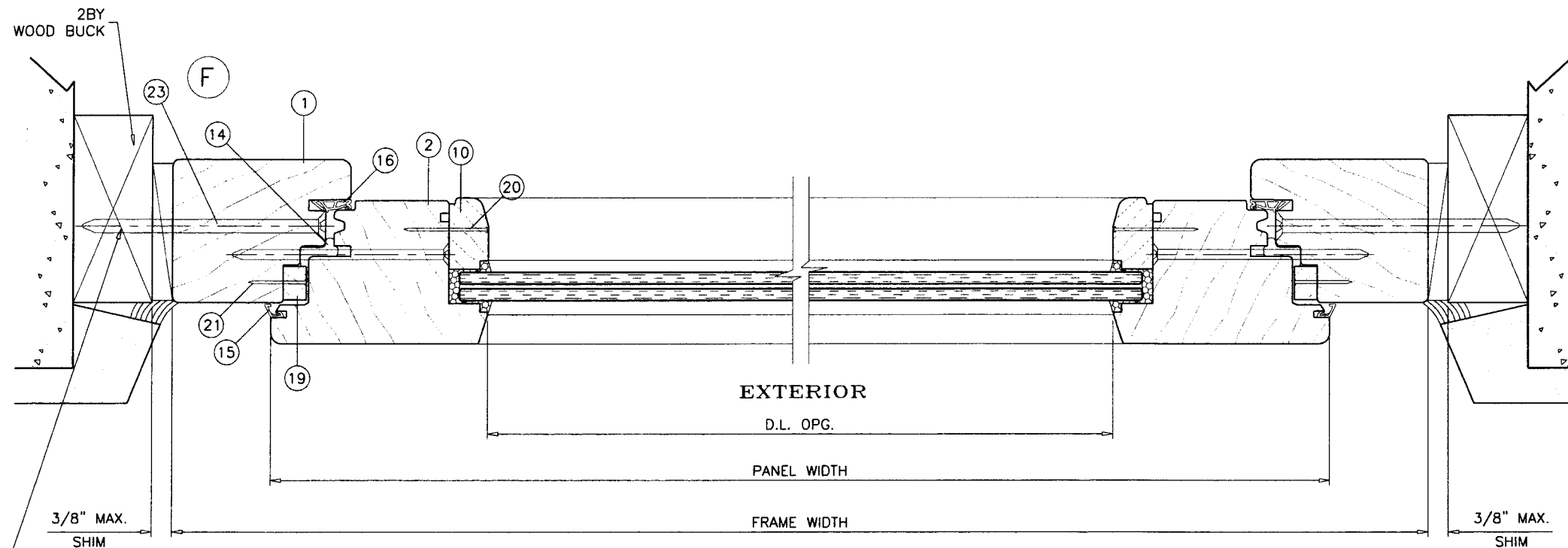
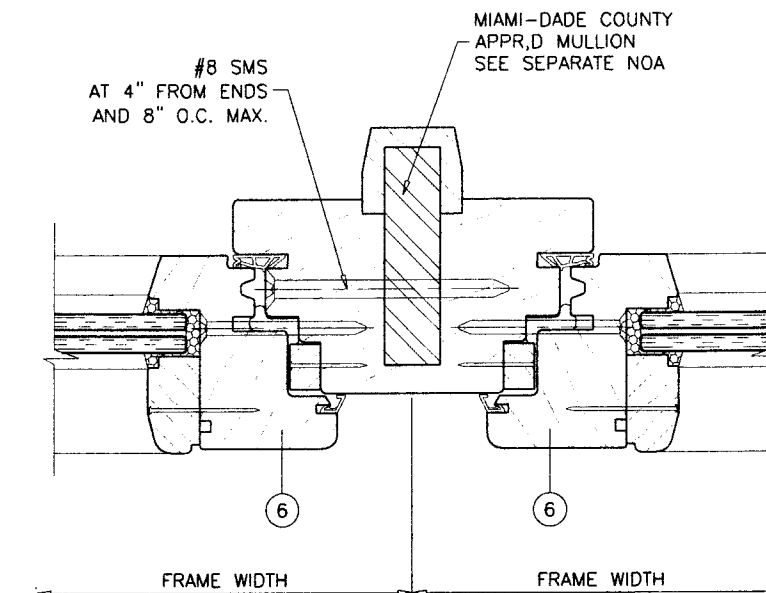
chk. by:

drawing no.
W07-45

sheet 4 of 8



SIDELITE/TRANSOM UNIT



FIX. DOOR UNIT

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

APR 02 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Approval No. 09-0518.D4
Expiration Date NOV. 15, 2012
By *Mamuel Perez*
Miami Dade Product Control
Division

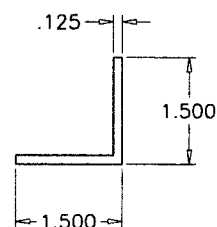
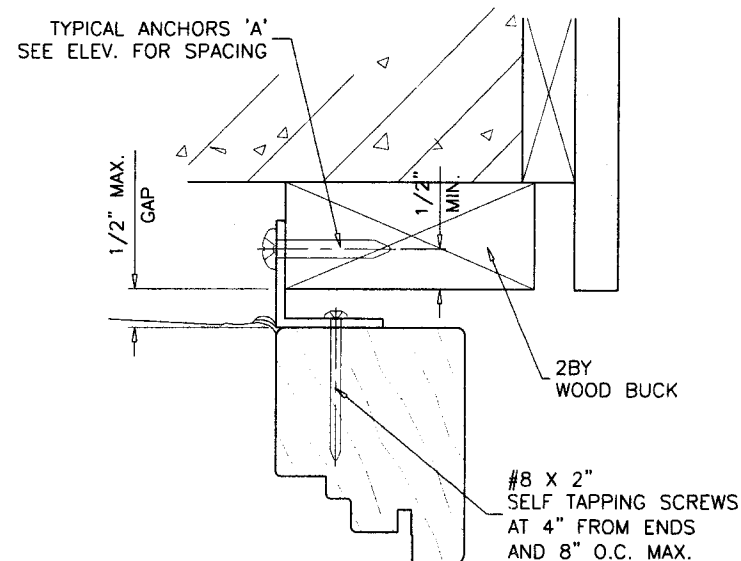
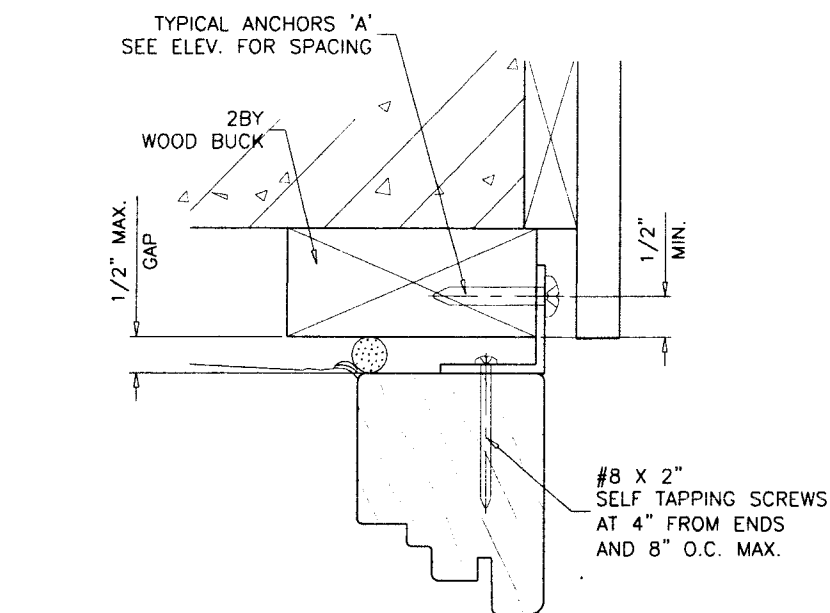
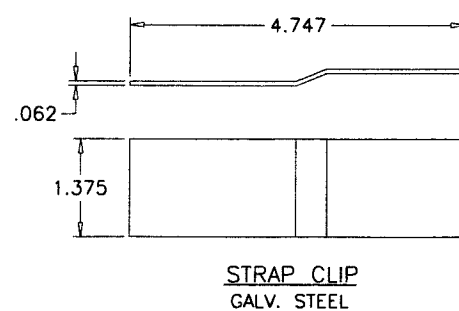
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W07-45HWD

SIDELITE/TRANSOM WINDOWS (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:		by description
no	date	
A	03.26.09	NO CHANGE THIS SHEET

date: 05-05-07	scale: 3/8" = 1"	dr. by: HAMID	chk. by:
----------------	------------------	---------------	----------

drawing no.
W07-45
sheet 5 of 8



ALUMINUM ANGLE CONT.
(6063-T5)

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

APR 02 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0518.04
Expiration Date NOV. 15, 2012
By Manuel Perez
Miami Dade Product Control
Division

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX (305) 262-6978

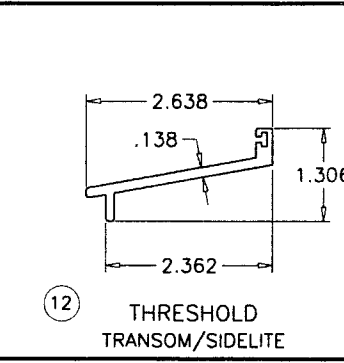
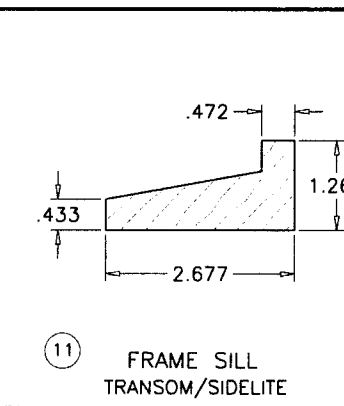
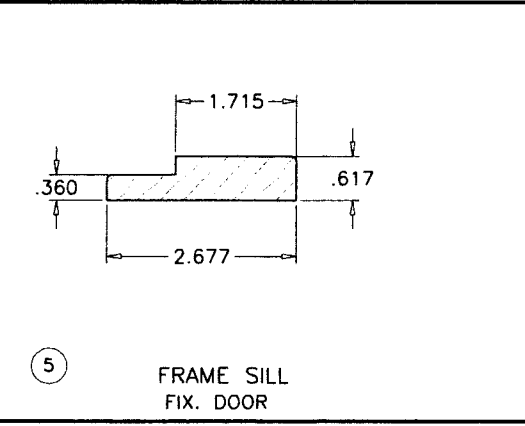
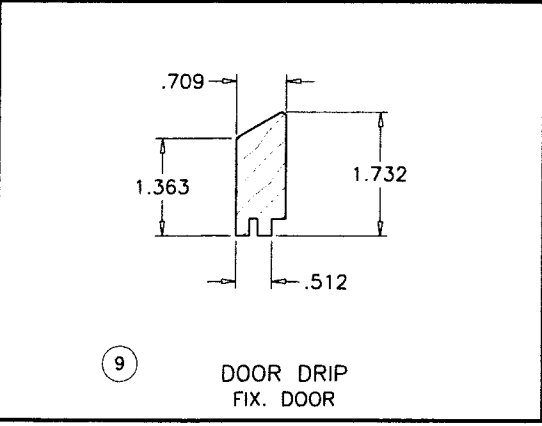
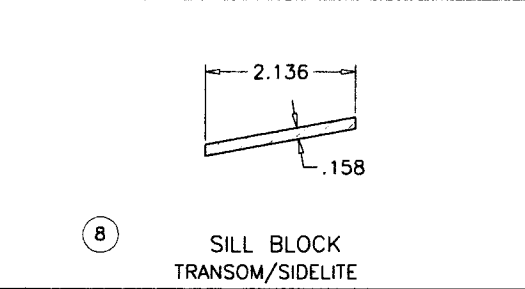
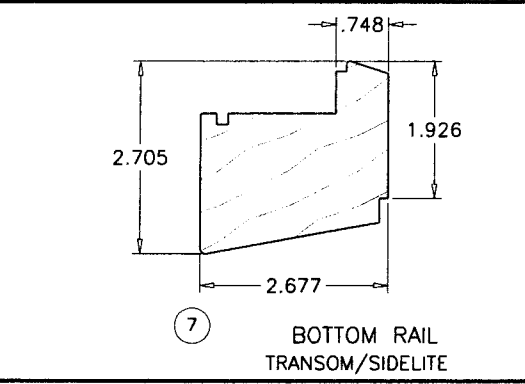
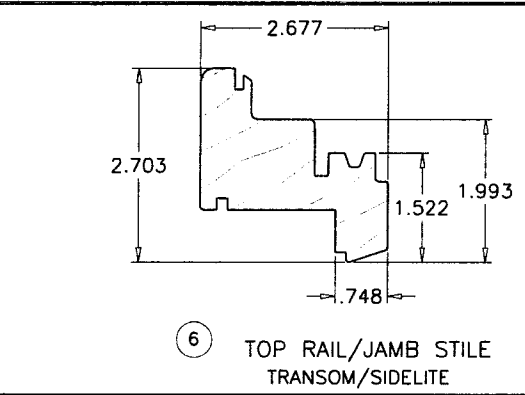
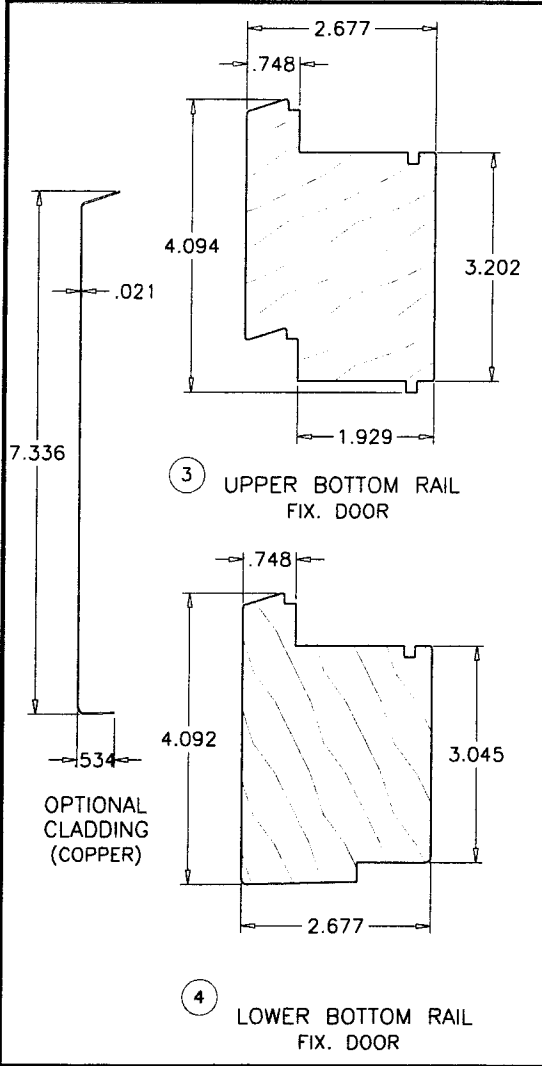
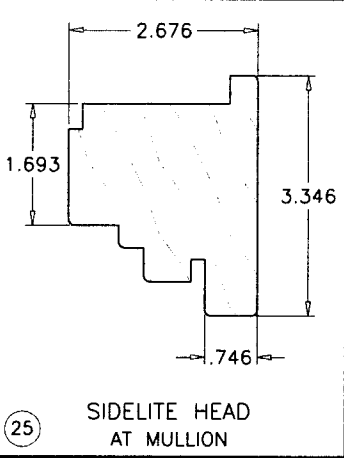
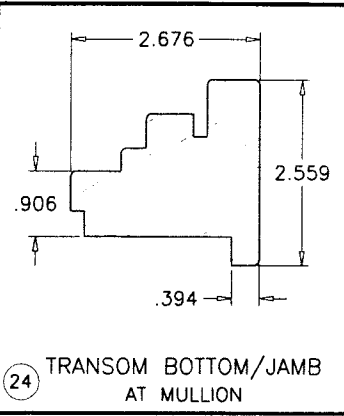
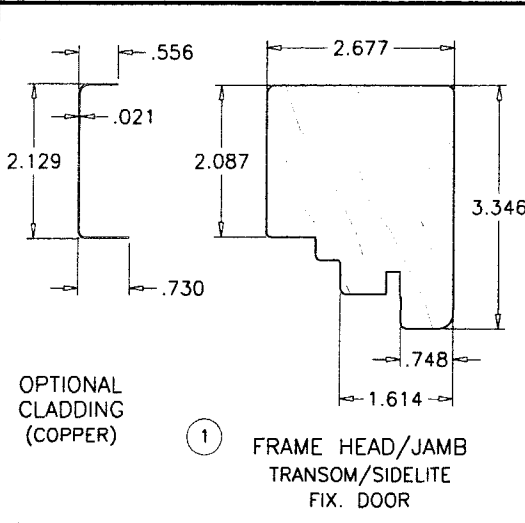
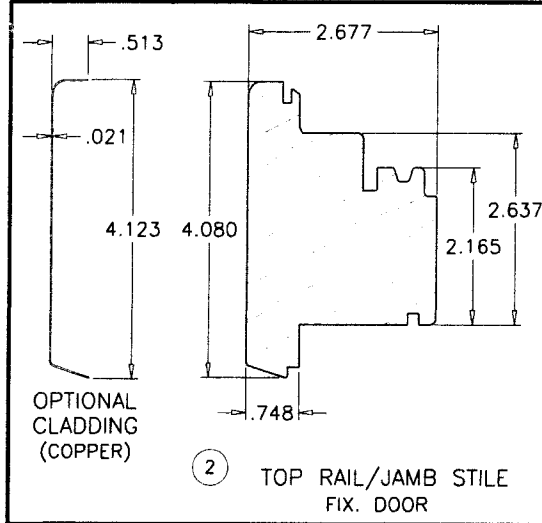
SIDELITE/TRANSOM WINDOWS (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

[illegible]

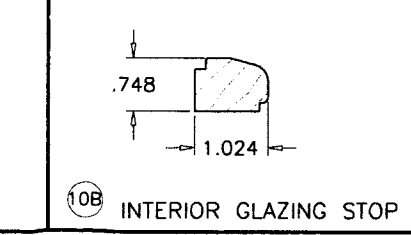
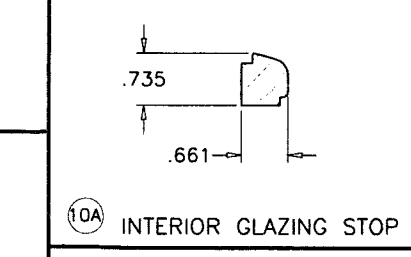
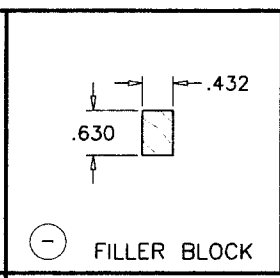
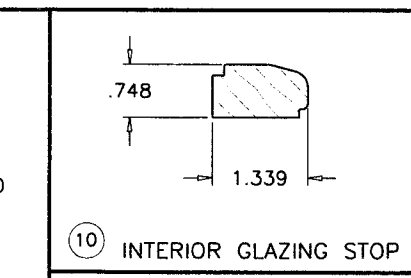
date: 05-05-07
scale: $3/8" = 1"$
dr. by: HAMID
chk. by:

drawing no.
W07-45
sheet 6 of 8

COMP-ANL\W07-45HWD



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	3/ DOOR	FRAME HEAD/JAMB	WOOD	MAHOGANY
2	-	2/ LEAF	TOP RAIL/JAMB STILE (FIX. DOOR)	WOOD	MAHOGANY
3	-	1/ LEAF	UPPER BOTTOM RAIL (FIX. DOOR)	WOOD	MAHOGANY
4	-	1/ LEAF	LOWER BOTTOM RAIL (FIX. DOOR)	WOOD	MAHOGANY
5	-	1	FRAME SILL (FIX. DOOR)	WOOD	MAHOGANY
6	-	-	TOP RAIL/JAMB STILE (TRANSOM/SIDELITE)	WOOD	MAHOGANY
7	-	-	BOTTOM RAIL (TRANSOM/SIDELITE)	WOOD	MAHOGANY
8	-	-	SILL BLOCK (TRANSOM/SIDELITE)	WOOD	MAHOGANY
9	-	1 LEAF	DOOR DRIP (FIX. DOOR)	WOOD	MAHOGANY
10	-	4/ LEAF	GLAZING STOP (LAM. GLASS)	WOOD	MAHOGANY
10A	-	4/ LEAF	GLAZING STOP (INSUL. LAM. GLASS)	WOOD	MAHOGANY
10B	-	4/ LEAF	GLAZING STOP (WOOD PANEL)	WOOD	MAHOGANY
11	-	1	FRAME SILL (FIX. DOOR)	WOOD	MAHOGANY
12	-	1	THRESHOLD (FIX. DOOR)	BRASS	-
13	-	AS REQD.	THERMOPLASTIC BULB GASKET	VINYL	OLIMPIA
14	995	AS REQD.	RAIL/STILE SEAL	SILICONE	DOW CORNING
15	1500450	AS REQD.	THERMOPLASTIC GASKET	VINYL	OLIMPIA
16	1500430	AS REQD.	THERMOPLASTIC GASKET	VINYL	OLIMPIA
17	1500512	AS REQD.	THERMOPLASTIC GASKET	-	OLIMPIA
18	V992	AS REQD.	NORTON NORSEAL TAPE	-	TOTAL PLASTICS
19	-	AS REQD.	FILLER BLOCK	WOOD	MAHOGANY
20	-	AS REQD.	18 GA. X 1-1/2" BRAD NAILS	-	3" FROM ENDS & 8" O.C.
21	-	AS REQD.	18 GA. X 1" BRAD NAILS	-	3" FROM ENDS & 12" O.C.
22	-	AS REQD.	#12 X 3-1/2" SCREWS	-	8" FROM ENDS & 8" O.C.
23	-	AS REQD.	#12 X 4" SCREWS	-	8" FROM ENDS & 8" O.C.
24	-	AS REQD.	TRANSOM BOTTOM/JAMB (AT MULLION)	WOOD	MAHOGANY
25	-	AS REQD.	SIDELITE HEAD (AT MULLION)	WOOD	MAHOGANY



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0518-04
Expiration Date NOV. 15, 2012
By: *Manuel Perez*
Miami Made Product Control
Division

APR 02 2009

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W07-45HWD

SIDELITE/TRANSOM WINDOWS (L.M.I.)

HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 298-9600 FAX. (561) 296-9601

revisions:

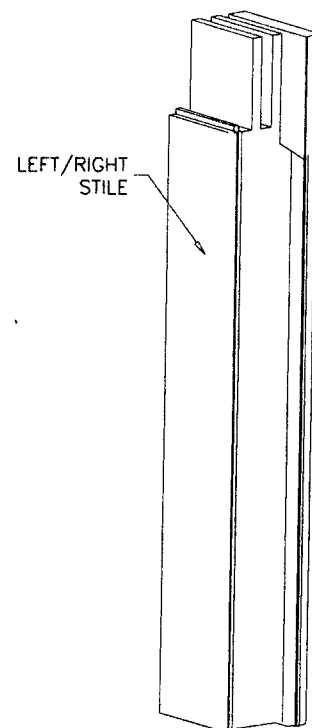
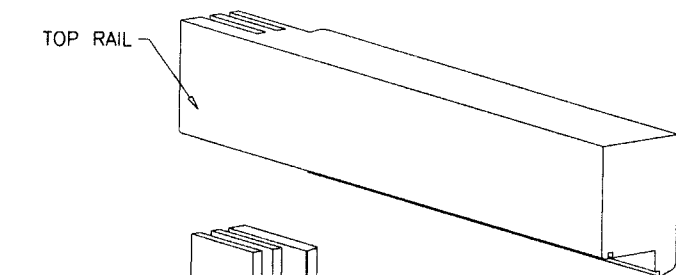
no.	date	by	description
A	03.26.09		NO CHANGE THIS SHEET

date: 05-05-07
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

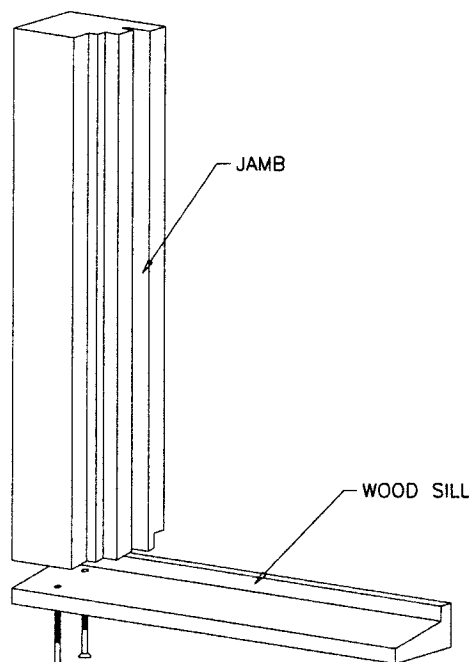
drawing no.
W07-45

sheet 7 of 8

APR 02 2009

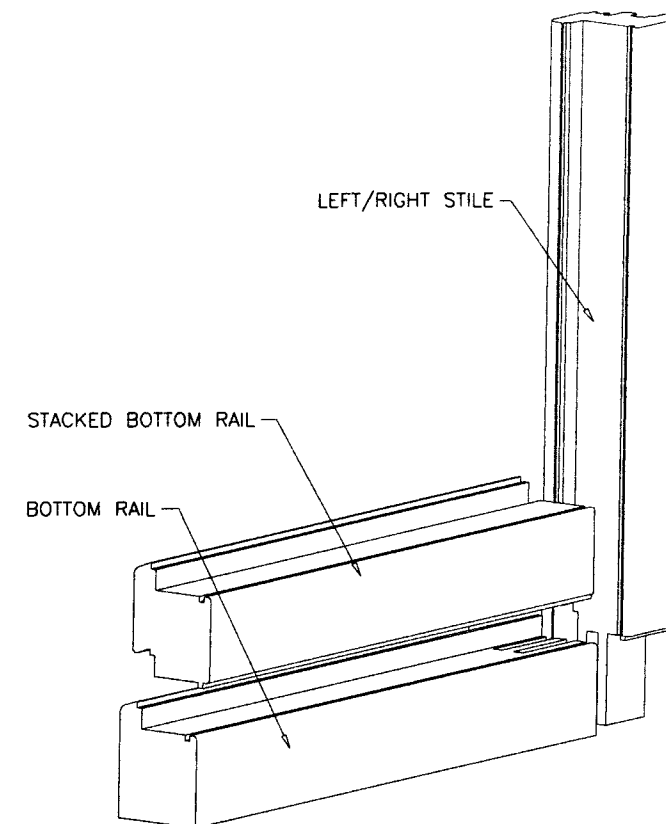


JAMB TOP CORNER

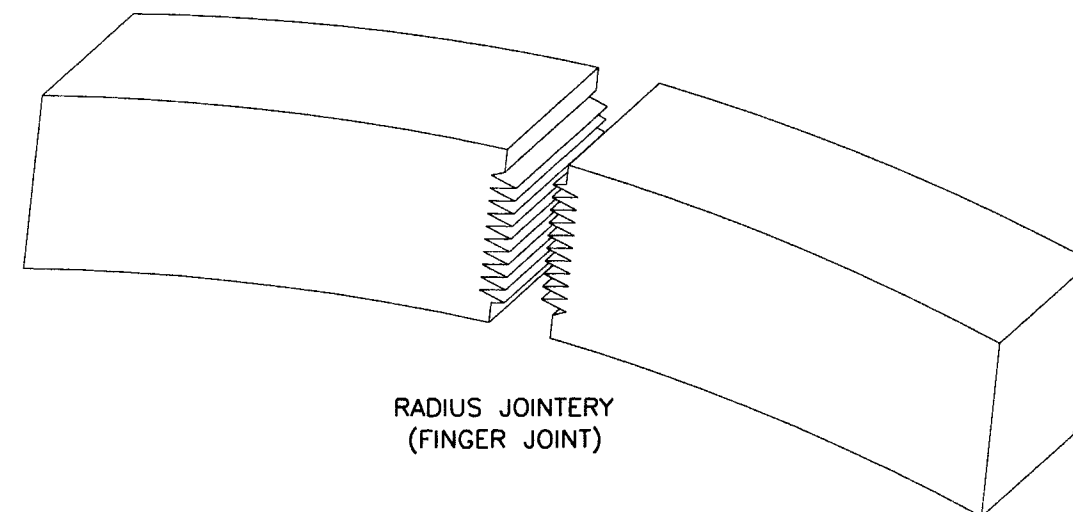


#12 X 2-1/2"
FH WOOD SCREWS

JAMB BOTTOM: HALF LAP SECURED WITH
#12X2-1/2 s.s. SCREWS NP-1 GLUE



SASH: MULTI-FORK MORTISE AND TENON
JOINERY SECURED
WITH NATIONAL CASEINE OR TITE BOND II
WATERPROOF GLUE



RADIUS JOINTERY
(FINGER JOINT)

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

APR 02 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0518.04
Expiration Date NOV. 15, 2012
By: *Manuel Perez*
Miami Code Product Control
Division

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL \ W07 - 45HWD

SIDELITE/TRANSOM WINDOWS (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:		no	date	by	description
		A	03.26.09		NO CHANGE THIS SHEET

date: 05-05-07
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W07-45

sheet 8 of 8